WHAT IS CLAIMED IS:

- 1 1. A wireless LAN system having an access point connected through
- 2 a wire network and a mobile terminal performing a wireless
- 3 communication with said access point, said wireless LAN system
- 4 comprising;
- 5 a selection circuit for selecting a wireless frequency usable
- 6 in a relevant area out of stored wireless frequency data on the
- 7 basis of the area information inputted into said mobile terminal
- 8 at the time of setting a frequency for performing a wireless
- 9 communication, and
- a communication circuit through which said access point and
- 11 said mobile terminal perform a wireless communication with each
- 12 other by means of the wireless frequency selected by said
- 13 selection circuit.
- 1 2. A wireless LAN system according to claim 1, wherein said
- 2 stored wireless frequency data include area information and all
- 3 permitted wireless frequency values corresponding to the said
- 4 area information.
- 1 3. A wireless LAN system according to claim 2, wherein said
- 2 selection circuit performs reception operations by means of all
- 3 wireless frequency values permitted in said area, displays
- 4 wireless frequencies bringing no carrier-busy state as a result
- 5 of said reception operations as usable frequencies to said mobile
- 6 terminal, and makes a communication frequency be selected out
- 7 of said usable frequencies by operation of said mobile terminal.
- 1 4. A wireless LAN system having an access point connected through
- 2 a wire network, a mobile terminal performing a wireless

- 3 communication with said access point and a maintenance device,
- 4 said wireless LAN system comprising;
- 5 a selection circuit for selecting a wireless frequency usable
- 6 in a relevant area out of wireless frequency data stored in said
- 7 access point on the basis of the area information inputted into
- 8 said maintenance device at the time of setting a frequency for
- 9 performing a wireless communication, and
- 10 a communication circuit through which said access point and
- 11 said mobile terminal perform a wireless communication with each
- 12 other by means of the wireless frequency selected by said
- 13 selection circuit.
- 1 5. A wireless LAN system according to claim 4, wherein said
- 2 stored wireless frequency data include area information and all
- 3 permitted wireless frequency values corresponding to the said
- 4 area information.
- 1 6. A wireless LAN system according to claim 5, wherein said
- 2 selection circuit performs reception operations by means of all
- 3 wireless frequency values permitted in said area, displays
- 4 wireless frequencies bringing no carrier-busy state as a result
- 5 of said reception operations as usable frequencies to said
- 6 maintenance device, and makes a communication frequency be
- 7 selected out of said usable frequencies by operation of said
- 8 maintenance device.
- 1 7. A wireless LAN system having an access point connected through
- 2 a wire network, a mobile terminal performing a wireless
- 3 communication with said access point and a maintenance device,
- 4 said wireless LAN system comprising;

- 5 a selection circuit for selecting a wireless frequency usable
- 6 in a relevant area out of wireless frequency data stored in said
- 7 maintenance device on the basis of the area information inputted
- 8 into said maintenance device at the time of setting a frequency
- 9 for performing a wireless communication, and
- 10 a communication circuit through which said access point and
- 11 said mobile terminal perform a wireless communication with each
- 12 other by means of the wireless frequency selected by said
- 13 selection circuit.
 - 1 8. A wireless LAN system according to claim 7, wherein said
 - 2 stored wireless frequency data include area information and all
 - 3 permitted wireless frequency values corresponding to the said
 - 4 area information.
 - 1 9. A wireless LAN system according to claim 8, wherein said
 - 2 selection circuit performs reception operations by means of all
 - 3 wireless frequency values permitted in said area, displays
 - 4 wireless frequencies bringing no carrier-busy state as a result
 - 5 of said reception operations as usable frequencies to said
 - 6 maintenance device, and makes a communication frequency be
- 7 selected out of said usable frequencies by operation of said
- 8 maintenance device.
- 1 10. A mobile terminal of a wireless LAN system, said mobile
- 2 terminal comprising;
- 3 a selection circuit for selecting a wireless frequency usable
- 4 in a relevant area out of wireless frequency data stored in said
- 5 terminal on the basis of the area information inputted into said
- 6 mobile terminal at the time of setting a wireless frequency for

- 7 performing a wireless communication with an access point, and
- 8 a communication circuit for performing a wireless
- 9 communication with said access point by means of the wireless
- 10 frequency selected by said selection circuit.
 - 1 11. A mobile terminal according to claim 10, wherein said stored
 - 2 wireless frequency data include area information and all
 - 3 permitted wireless frequency values corresponding to the said
 - 4 area information.
 - 1 12. A mobile terminal according to claim 11, wherein said
 - 2 selection circuit performs reception operations by means of all
 - 3 wireless frequency values permitted in said area, displays
 - 4 wireless frequencies bringing no carrier-busy state as a result
 - 5 of said reception operations as usable frequencies, and makes
 - 6 a communication frequency be selected out of said usable
 - 7 frequencies.
 - 1 13. An access point of a wireless LAN system, being connected
 - 2 to a maintenance device through a wire network, said access point
 - 3 comprising;
 - 4 a selection circuit for selecting a wireless frequency usable
 - 5 in a relevant area out of wireless frequency data stored in its
 - 6 own device or said maintenance device on the basis of the area
- 7 information inputted into said maintenance device at the time
- 8 of setting a wireless frequency for communicating with a mobile
- 9 terminal, and
- 10 a communication circuit for performing a wireless
- 11 communication with said mobile terminal by means of the wireless
- 12 frequency selected by said selection circuit.

- 1 14. An access point according to claim 13, wherein said stored
- 2 wireless frequency data include area information and all
- 3 permitted wireless frequency values corresponding to the said
- 4 area information.
- 1 15. An access point according to claim 14, wherein said selection
- 2 circuit performs reception operations by means of all wireless
- 3 frequency values permitted in said area, sends wireless
- 4 frequencies bringing no carrier-busy state as a result of said
- 5 reception operations as usable frequencies to said maintenance
- 6 device, and makes a communication frequency be selected out of
- 7 said usable frequencies by operation of said maintenance device.
- 1 16. An access point of a wireless LAN system, being connected
- 2 to a maintenance device having a man-machine interface through
- 3 a wire network and performing a wireless communication with a
- 4 mobile terminal, said access point comprising;
- 5 a transmission circuit for performing reception operations
- 6 by means of all wireless frequency values permitted in a relevant
- 7 area, said wireless frequency values being stored in said
- 8 maintenance device or its own device, on the basis of the area
- 9 information inputted through said man-machine interface of said
- 10 maintenance device at the time of setting a wireless frequency
- 11 for communicating with a mobile terminal, and
- a selection circuit for making a communication frequency
- 13 be selected out of said usable frequencies by operation of said
- 14 maintenance device.
- 1 17. A method for setting a frequency in a wireless LAN system

- 2 having an access point and a maintenance device connected to
- 3 each other through a wire network and a mobile terminal performing
- 4 a wireless communication with said access point, said method
- 5 comprising;
- a step of selecting a wireless frequency usable in a relevant
- 7 area out of stored wireless frequency data on the basis of the
- 8 area information inputted at the time of setting a wireless
- 9 frequency for the wireless LAN system to communicate, and
- a step of making said mobile terminal and said access point
- 11 perform a wireless communication with each other by means of
- 12 said selected wireless frequency.
- 1 18. A method for setting a frequency in a wireless LAN system
- 2 according to claim 17, wherein said stored wireless frequency
- 3 data include area information and all permitted wireless
- 4 frequency values corresponding to the said area information.
- 1 19. A method for setting a frequency in a wireless LAN system
- 2 according to claim 18, wherein said selection of a usable wireless
- 3 frequency is performed by performing reception operations by
- 4 means of all wireless frequency values permitted in said area,
- 5 sending wireless frequencies bringing no carrier-busy state as
- 6 a result of said reception operations as usable frequencies to
- 7 said maintenance device or said mobile terminal, and making a
- 8 communication frequency be selected out of said usable
- 9 frequencies by said maintenance device or said mobile terminal.
- 1 20. A method for setting a frequency in a wireless LAN system
- 2 comprising a maintenance device having a man-machine interface,
- 3 an access point connected to a wire network and a mobile terminal

performing a wireless communication with said access point, 4 5 wherein; 6 said access point performs reception operations by means 7 of all wireless frequency values permitted in a relevant area 8 stored in the maintenance device or the access point on the basis of the area information inputted through the man-machine 9 interface of the maintenance device at the time of setting a 10 11 wireless frequency for said access point to communicate with 12 the mobile terminal, sends wireless frequencies bringing no 13 carrier-busy state as a result of said reception operations as 14 usable frequencies to a maintenance person and makes the 15 maintenance person select a communication frequency out of said 16 usable frequencies, and 17 said mobile terminal performs reception operations by means 18 of all wireless frequency values permitted in a relevant area, 19 said wireless frequency values being stored in the mobile 20 terminal, on the basis of the area information inputted through 21 the man-machine interface of the mobile terminal at the time 22 of setting a wireless frequency for said mobile terminal to 23 communicate with the access point, sends wireless frequencies 24 bringing no carrier-busy state as a result of said reception

operations as usable frequencies to a user and makes the user

select a communication frequency out of said usable frequencies.

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